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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/577,078	05/23/2000	Toshihiro Shima	04783.012001	4163

22511 7590 03/12/2004

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EXAMINER	
GHEE, ASHANTI	
ART UNIT	PAPER NUMBER
2626	10

DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/577,078	SHIMA, TOSHIHIRO	
	Examiner	Art Unit	
	Ashanti Ghee	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☐ Claim(s) _____ is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-10 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on 23 May 2000 is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. ____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 8 and 10 are objected to because of the following informalities: "peripheral data" in both claims (see the last line of each claim) should possible read "peripheral device". Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mochizuki (US Patent No. 6,384,926 B2) in view of Wood et al. (US Patent No. 6,453,127 B2).

Regarding claim 1, Mochizuki discloses a printer connected to a network, comprising: a memory (memory 20) for storing (stores) a program and/or data (print control information; col. 5, lines 23-33); a processor (MPU 17) for executing (performs) the program (various kinds of information; col. 5, lines 27-39); and a print engine (print mechanism 5) for executing (performs) printing on a print record medium (an actual printing process reads on printing on a print record medium; col. 5, lines 53-58), wherein according to the program, the processor: receives (received) from a computer (client 11)

a print request (process request; col. 5, lines 59-65); sends (transmits) the acquisition request (process request) to the peripheral (server 2; col. 3, lines 16-20).

Although Mochizuki does not disclose including a request to a peripheral device to acquire print data; and causes the print engine to print on the basis of the print data sent from the peripheral device in response to the acquisition request, Wood discloses including a request (signals) to a peripheral device (computer 30) to acquire (accept) print data (print job; col. 6, lines 41-54); and causes the print engine (marking engine, see Fig. 2) to print (to be printer) on the basis of the print data (print job) sent from the peripheral device (30) in response (print job is downloaded reads on in response to) to the acquisition request (signal job image buffer 24 reads on acquisition request; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 2, Mochizuki discloses a printer according to claim I, wherein according to the program and in response (printer receives) to a given transfer request (process request) sent (issues) from the computer (terminal 1; col. 3, lines 36-40).

Although Mochizuki does not disclose the processor sends page data, which composes a print acceptance screen for sending the print request, to the computer, Wood discloses the processor (marking control engine 27) sends (sends; col. 4, lines 45-49) page data (plural pages; col. 3, lines 20-23), which composes (include) a print

acceptance screen (other messages in the context of this reference reads on print acceptance screen) for sending (communicated) the print request (signals), to the computer (computer 30; col. 6, lines 23-65).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 3, Mochizuki discloses a printer according to claims 1 and 2, wherein the acquisition request (process request) includes a specified condition (necessary resource) for the peripheral device (server 2; col. 3, lines 21-29).

Although Mochizuki does not disclose to acquire the print data, Wood discloses to acquire (accept) the print data (print job; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 4, Mochizuki discloses a printer connected to a network, comprising: print request acceptance means (interface unit 16 & LAN communication control unit 22) of accepting (received) a print request (process request) sent (transmits) from a computer (client 11; col. 5, lines 15-65); acquisition request means (printer communication control unit 25) of sending (transmits) the acquisition request (process request) to the peripheral device print server 12) on the basis of the print request

(process request) accepted (receives) by the print request acceptance means (16&22; col. 9, lines 37-65).

Although Mochizuki does not disclose the print request including a request to a peripheral device to acquire print data; print data acceptance means of accepting the print data sent from the peripheral device in response to the acquisition request sent by the acquisition request means; and print means of performing printing on the basis of the print data accepted by the print data acceptance means, Wood discloses the print request (signals) including a request (signal) to a peripheral device (computer 30) to acquire (accept) print data (print job; col. 6, lines 41-54); print data acceptance means (job image buffer 24) of accepting (accept) the print data (print job) sent (downloaded) from the peripheral device (30) in response to the acquisition request (signal) sent by the acquisition request means (marking systems supervisor 23; col. 6, lines 41-54); and print means (marking engine 25, see Fig. 2) of performing printing (printed) on the basis of the print data (print job) accepted (accept) by the print data acceptance means (24; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 5, Mochizuki discloses a printer according to claim 4, to the computer (client 11) in response to a given transfer request (process request) sent from the computer (11; col. , lines 15-22).

Although Mochizuki does not disclose wherein the printer further comprises page data sending means of sending page data, which composes a print acceptance screen to send the print request, Wood discloses wherein the printer further comprises page data sending means (computer 30) of sending (sending; col. 4, lines 45-49) page data (data), which composes (include) a print acceptance screen (other messages) to send (communicated) the print request (signals; col. 6, lines 23-65).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 6, Mochizuki discloses a method for controlling a printer connected to a network, comprising the steps of: receiving (received) a print request (process request) from a computer (client 11; col. 5, lines 59-65); sending (transmits) the acquisition request (process request) to the peripheral device (server 2; col. 3, lines 16-20).

Although Mochizuki does not disclose the print request including a request to a peripheral device to acquire print data; and printing on the basis of the print data sent from the peripheral device in response to the acquisition request, Wood discloses, the print request (signal) including a request (signal) to a peripheral device (computer 30) to acquire (accept) print data (print job; col. 6, lines 41-54); and printing (to be printed) on the basis of the print data (print job) sent (downloaded) from the peripheral device (30) in response to the acquisition request (signal job image buffer 24; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 7, Mochizuki discloses a program product stored thereon for causing a control unit of a printer to perform given functions, the product comprising: a print request acceptance function (interface 16 & LAN communicating control unit 22) to accept (received) a print request (process request) from a computer (client 11; col. 5, lines 15-65), an acquisition request function (printer communication control unit 25) to send (transmits) the request (resource request) to the peripheral device (print server 12) on the basis of the print request (process request) accepted (receives) by the print request acceptance means (16&22; col. 9, lines 37-65).

Although Mochizuki does not disclose the print request including a request to a peripheral device to acquire print data; to acquire the print data; a print data acceptance function to accept the print data sent from the peripheral device in response to the acquisition request sent by the acquisition request function; and a print function to cause a print engine to perform printing on the basis of the print data accepted by the print data acceptance function, Wood discloses the print request (signals) including a request (signal) to a peripheral device (computer 30) to acquire (accept) print data (print job; col. 6, lines 41-54); to acquire (accept) the print data (print job; col. 6, lines 41-54); a print data acceptance function (job image buffer 24) to accept (accept) the print data (print job) sent (downloaded) from the peripheral device (computer 30) in response

(print job downloaded in response to a signal) to the acquisition request (signal) sent (signal is sent) by the acquisition request function (marking systems supervisor 23; col. 6, lines 41-54); and a print function (marking engine 25, Fig. 2) to cause a print engine (25) to perform printing (to be printed) on the basis of the print data (print job) accepted (accept) by the print data acceptance function (24; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 8, Mochizuki discloses a print system comprising a printer, a computer and a peripheral device, wherein the printer (printer 3) receives (request from) a print request (process request) sent (transmits) from the computer (terminal 1), and sends (transmits) the acquisition request (process request) to the peripheral device (server 2; col. 3, lines 16-20).

Although Mochizuki does not disclose the print request including a request to the peripheral device to acquire print data; wherein the peripheral device acquires the print data in response to the acquisition request and sends the acquired print data to the printer, and wherein the printer performs printing on the basis of the print data sent from the peripheral data, Wood discloses the print request (signals) including a request (signal) to the peripheral device (computer 30) to acquire (accept) print data (print job; col. 6, lines 41-54); wherein the peripheral device (30) acquires (accept) the print data (print job) in response to the acquisition request (signal) and sends (downloaded) the

acquired print data (print job from temporary memory 37) to the printer (printer; col. 6, lines 41-54), and wherein the printer (printer) performs printing (to be printed) on the basis of the print data (print job) sent (downloaded) from the peripheral data (30; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Regarding claim 9, Mochizuki discloses a printer connected to a network, comprising; a memory (memory 20) for storing (stores) a program and/or data (print control information; col. 5, lines 23-33); a processor (MPU 17) for executing (performs) the program (various kinds of information; col. 5, lines 53-58); and a print engine (print mechanism 5) for executing printing (performs) on a print record medium (an actual printing process; col. 5, lines 53-58), wherein according to the program, the processor: to the computer (terminal 1) in response (printer receives) to a given transfer request (process request) from the computer (1; col. 3, lines 36-40); receives (receives) the print data (job) that a peripheral device (print server 12) acquires (received) and sends (transmits) in response to a print request (job print request) as the computer (host computer 15) sends (transmits) the print request (job print request) to the peripheral device (12; col. 9, lines 16-45).

Although Mochizuki does not disclose sends page data, which composes a print acceptance screen for a computer to request the printing of print data; the print request

including a request to acquire the print data on the basis of the print acceptance screen; and causes the print engine to print on the basis of the received print data, Wood discloses sends (sends; col. 4, lines 45-49) page data (plural pages), which composes (include) a print acceptance screen (other messages) for a computer (computer 30) to request (signal) the printing (to be printed) of print data (print job; col. 6, lines 23-65); the print request (signals) including a request (signal) to acquire (accept) the print data (print job) on the basis of the print acceptance screen (other messages; col. 6, lines 23-65); and causes the print engine (marking engine 25; Fig. 2) to print (to be printed) on the basis of the received print data (print job is downloaded; col. 6, lines 41-54).

Regarding claim 10, Mochizuki discloses a print system comprising a printer, a computer and a peripheral device, wherein in response (printer receives) to a given transfer request (process request) from the computer (terminal 1;col. 3, lines 36-40), wherein the peripheral device (print server 12) acquires (received) the print data (the job) in response to the acquisition request (job print request) included in the print request (print request; col. 9, lines 16-45).

Although Mochizuki does not disclose the printer sends page data to the computer, the page data composing a print acceptance screen for the computer to request the printing of print data, wherein the computer displays the print acceptance screen on the basis of the page data sent from the printer, and sends a print request, including a request to acquire the print data, to the peripheral device on the basis of given information inputted to the displayed print acceptance screen, and sends the acquired print data to the printer indicated in the print request, and wherein the printer

performs printing on the basis of the print data sent from the peripheral data, Wood discloses the printer (printers 15, 15') sends (sending) page data (plural pages; col. 3, lines 20-23) to the computer (workstation), the page data (plural pages) composing (include) a print acceptance screen (other messages) for the computer (computer 30) to request (signal) the printing (to be printed) of print data (print job; col. 6, lines 23-65), wherein the computer (terminal 11) displays (accept) the print acceptance screen (other messages) on the basis of the page data (plural pages) sent (sends; col. 4, lines 45-49) from the printer (printer; col. 6, lines 23-65), and sends a print request (signals), including a request (signal) to acquire (accept) the print data (print job), to the peripheral device (30) on the basis of given information inputted (user required for reproduction of print job is provided) to the displayed print acceptance screen (new screen page; col. 6, lines 23-65), and sends (downloaded) the acquired print data (print job is downloaded) to the printer indicated (printer) in the print request (signal; col. 6, lines 41-54), and wherein the printer (printer) performs printing (to be printed) on the basis of the print data (print job) sent (downloaded) from the peripheral data (30; col. 6, lines 41-54).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made would combine and modify the teachings of Mochizuki and Wood due to both references disclosing networked printing systems to provide interaction with the copier/printer in regards to the print job being sent.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sasaki et al. (US Patent No. 6,351,317 B1) discloses a printer system using a communication network.

Fung et al. (US Patent No. 6,301,011 B1) discloses a dynamic plug and play interface for an output device.

Takimoto (US Patent No. 6,22,092 B1) discloses a print system managing the security of a printer shared on a network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashanti Ghee whose telephone number is (703) 306-3443. The examiner can normally be reached on Mon-Thurs and alt. Fri. (7-4PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ashanti Ghee
Examiner
Art Unit 2626

AG
March 8, 2004

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